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Proceedings (Cont.)

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Card 14/14

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11-23-59

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Degree of polarization and depolarization. Radiometer Polarographics 1,  
109-10 (1952)

HEYROUSKY, J.

Oscillographic determination of oxygen and some noxious gases in the atmosphere of workrooms. J. Heyrousky (Czech Acad. Sci., Prague). *Sbornik Československé Konf. Anal. Chemiků* 1, 300-4 (1952) (Pub. 1953).—O in the air is detd. by bubbling the air through a soln. of  $N LiCl$  and  $0.005-0.1N MnCl_2$ , which is subjected to oscillographic polarography; the oxidation of  $Mn^{2+}$  by O gives rise to characteristic breaks in the curve.  $CS_2$  and  $H_2S$  cause breaks when bubbled through a soln. of  $2M HOAc$  and  $2M NaOAc$ ; they can be detd. in the presence of each other by bubbling through a soln. of  $N NH_4OH$  and  $N NH_4Cl$ ; they can also be absorbed permanently, and subsequently detd. in a mixt. of 70 ml.  $4N LiCl$ , 70 ml.  $EtOH$ , and 3 ml. 33%  $Et_3NH$  ( $Et_3NH$  and  $CS_2$  form diethyldithiocarbamate).  $SO_2$  is detd. by bubbling the air through a soln. of  $2N H_2SO_4$ .  $Me_2CO$  and  $Et_2O$  are detd. by bubbling the air through 25%  $HCl$ . H. Newcombe.



HEYROVSKY, Jaroslav 1900 -

Oscillografická polarografie, Prague: SNTL. 1953 . 154 pp. Kcs. 17.50.  
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✓ Heyrovsky, J., and Zeman, P.: Úvod do praktické polarografie. 2nd ed. Prague: CSAV, 1953. 190 pp. Kes: *CH*  
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758. The use of oscillographic polarography in pharmacy. J. Heyrovsky (Czechosl. Pharm., 1954, 8 [12], 403-404; ~~Chem. Abstr.~~ Zh., Khim., 1954, Abstr. No. 25,189). — The principles of oscillographic polarography and its application to the determination of various pharmaceutical preparations are briefly reviewed. H. HAYNS

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Czechoslovakia (A:47:10094

Central Polarographic Inst., Opletalova 25, Prague, Czech.

"Qualitative analysis with a polarographic oscilloscope."

Anal. Chim. Acta 8, 283-94 (1953) (in English).

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Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Analytical Chemistry

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method in 1952. J. Heyrovsky (Czech. Acad. Sci., Prague)  
and O. H. Miller. *Collection Czechoslov. Chem. Commun.*  
18, Suppl. I, 30 pp. (1953); cf. C.A. 46, 6995i. R. H.

9-2-54  
JHP

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Oscillography of penicillin G and the determination of its purity  
[in English with summary in Russian]. Sbor.Chekh.khim.rab. 18 no.6:739-748  
D '53. (MLRA 7:6)

1. Polarographic Institute, Czechoslovak Academy of Science, Prague.  
(Penicillin) (Oscillograph)

①  
 \*The Oscillographic Depolarization Effect Due to Alkylaluminum Ions. J. Heyrovský (Coll. Czechoslov. Chem. Commun., 1958, 18, (6), 729-739). [In English]. An oscillographic depolarization effect is obtained with the dropping Hg electrode, provided that the base electrolyte consists of  $\text{Li}^+$  in concentrations  $> 2N$ .  $10^{-3}$ - $10^{-4}M$ - $\text{AlR}_3^+$  causes a sharp shift in the cathodic and anodic branches of the oscillogram at  $-1.2$  V. Increased o.d. at the Hg capillary electrode shifts the depolarization to  $-1.0$  V., whilst with decreased o.d. the potential is  $\sim -1.5$  V. These results are explained by the formation of  $\text{LiAlH}_4$ ; evidence is offered of the existence of this compound at the cathode interface. — J. D. H.

*Polarographic Inst., Czech. Acad. Sci., Prague.*



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Heyrovsky, J. "In memory of Professor Jan Bohm." p. 481. CASOPIS PRO PESTOVANI MATEMATIKY. CZECHOSLOVAK MATHEMATICAL JOURNAL. Vol. 47, no. 4, Apr. 1953, Praha, Czechoslovakia

SO: Monthly List of East European Accessions, LC., Vol. 3, No. 1, Jan. 1954, Uncl.

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Oscillographic depolarization effect of aluminum ions.  
 Jaroslav Heyrovský (Přístrojář, Ústav ČSAV, Prague, Czech.). *Chem. Zvesti* 47, 1762-7 (1953).—The depolarization effect of  $Al^{3+}$  ions is observed oscillographically only when excess  $Li^+$  salt is present in concns. greater than 2N. The  $dc/dt$  vs.  $v$ . curves show a sharp cathodic "cut-in" at about  $-1.2$  v. and the nearly reversibly corresponding anodic cut. At higher c.d.s. the  $Al^{3+}$  cuts are shifted to more pos. potentials up to  $-1.0$  v., at lower d.s. they drift in the opposite direction up to about  $-1.5$  v.; the cuts are more pos. than the polarographic half-wave potential of  $Al^{3+}$  ( $-1.78$  v.). The oscillographic depolarization effects of  $Al^{3+}$  are explained as follows: in the electrode interphase a compd.  $LiAlH_4$  (I) is formed from the  $Li^+$ ,  $Al^{3+}$ , and  $H^+$ ; I is oxidized during the anodic potential phase to  $H^+$ ,  $Al^{3+}$ , and  $Li^+$ . After the addn. of  $HCHO$ , the reducing power of I becomes apparent by the formation of new oscillographic cuts which are due to the reversible reduction of  $HCHO$ . The salts of quaternary amines and of pyridine give similar cuts. The depolarization effects mentioned are specific for  $Al^{3+}$ ; the detn. of  $Al^{3+}$  can be carried out by oscillographic or polarometric titrations. Also in *Collection Czechoslov. Chem. Commun.* 18, 749-50 (1953) (in English).

E. B. B. B.

Heyrovsky, Jaroslav

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2

The effect of gelatin in oscillographic polarography. Jaroslav Heyrovsky. Collection Czechoslov. Chem. Commun. 1953, 18, 58-67 (1964); XVIIth Intern. Congress Pure Appl. Chem., Stockholm, 1953; (in English). Notches on the cathodic and anodic branches of the oscillographic polarographic curve appear at the same potential if the reaction is reversible. Up to 0.5% gelatin does not affect the shape of the curves when univalent cations are reduced, but the notch is practically wiped out from the cathodic branch of the curve when bi- or multivalent cations are reduced. It is postulated for the latter reactions that the reduction consists of 3 successive processes: (a) the acceptance of a single electron, (b) aging of the formed excited lower-valency ion, and (c) disproportionation of 2 such aged ions, which may be retarded in the presence of gelatin. The retarding effect can be counterbalanced by the presence of very small amounts of deformable anions, such as  $\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{CNS}^-$ , or  $\text{I}^-$ . The gelatin effect is absent in reductions involving only one electron, such as  $[\text{Fe}(\text{oxalate})]^{3-} \rightarrow [\text{Fe}(\text{oxalate})]^{2-}$  in excess Na oxalate and oxalic acid, or  $\text{Mn}^{3+} \rightarrow \text{Mn}^{2+}$  and  $\text{Pb}^{4+} \rightarrow \text{Pb}^{2+}$  in excess of alk. triethanolamine. These phenomena occur at the dropping as well as at the streaming Hg electrode. However, to avoid the influence of consecutive and side reactions, only the latter electrode is used in studies of the reactions of org. substances. From the effects of gelatin on the shape and magnitude of the notches on the oscillographic curves conclusions can be drawn about the nature of the electrode reaction. Not only can one establish the number of electrons involved in consecutive reactions, but one may distinguish between processes due to simple diffusion and processes dependent on the rate of a chem. reaction involved in the electrode process. Otto H. Miller

GEYROVSKIY, Ya., akademik.

Polarigraphic congress meets in Smolenicy, convened by the polarigraphic institute of the Czech and Slovak Academies of Sciences and the polarigraphic section of the Slovak Society of Chemists. Biul. VNER no.10:296-298 Ag-0'54. (MIRA 8:2)

1. Direktor Polyarograficheskogo instituta Chekhoslovatskoy Akademii nauk.  
(Czechoslovakia--Polarograph and polarography--Congresses)

HEYROVSKY, J.

Oscillographic polarography. p. 603.  
TECHNICKA PRACA, Bratislava, Vol. 6, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,  
June 1956, Uncl.

HEYROVSKY, J.

"Mechanism of Electrode Processes." p. 617,  
(CHEMICKÉ ZVESTI, Vol. 8, No. 10, Dec. 1954, BRATISLAVA, CZECHOSLOVAKIA)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4  
No. 5, May 1955, Uncl.

HEYROVSKY, J.

✓ 13624\* Bibliography of Publications Dealing With the  
Polarographic Method in 1953. (English.) J. Heyrovsky  
Collection of Czechoslovak Chemical Communications, v. 19,  
1954, p. 15-385.  
A continuation of the author's bibliography of polarographic  
publications for the period 1922 to 1950.

Heyrovský, J.

CZECH

Bibliography of publications dealing with the electrographic method in 1953. A. Supplement of communications omitted in the former bibliographies. J. Heyrovský. Collection Czechoslov. Chem. Commun. 19, Suppl. 1, 1054 (1954); cf. C.A. 48, 5013A. E. J. C.

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Analysis with the electronic potentiograph

Anal. Appl. 24, 1967, 251-254. (1967)  
The potentiograph employs a modification of oscillography with alternating current in which the instantaneous representation of the function  $dV/dt = f(V)$  is photographed. The quantity of the depolarizer can be detd. either by the area of the cut-in on the diagram or by a comparative titration method (C.A. 48, 7840c). Oscillograms are shown of various sulfonamides, local anaesthetics (procaine, muncain, and nupercaine), barbiturates, etc.

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CIA-RDP86-00513R000618020012-1"

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V336. Bibliography of publications in 1954 dealing with the polarographic method. J. Heyrovsky (Coll. Czech. Chem. Commun., 1935, 20 (Suppl. 1), 1-61).—A bibliography is given of 616 references to papers on polarography published in 1954, together with 231 references to earlier years that were omitted from previous lists. N. E.

ALL  
MAY

HEIROVSKY, IAcoslav, akademik, khimik.

The polarograph and its use. Priroda 44 no.11:71-76 N '55.  
(MLRA 9:1)

1.Chlen Chekheslevatskey Akademii nauk, direktor Polyarogra-  
ficheskogo instituta v Prage.  
(Polarograph)

HEYROVSKY, J.

CZECH

✓ Polarographic maxima owing to the anodic solution of mercury in alkaline solution. J. Heyrovský and A. Trifonov (Polarograf. ústav CSAV, Prague). *Chem. Listy* 49, 783 (1955). — The anodic max. observed with the dropping Hg electrode in 0.1N NaOH at the potential of 0.48 v. (against satd. HgCl electrode) is followed by discontinual decrease of the polarographic current. A microscopic investigation of this phenomenon showed that the bright Hg surface during the electrolysis is covered by a thin layer which is then disturbed by further growth of the Hg drop. These surface films are formed by anodic pptn. of the Hg hydroxide or oxide. As shown by oscillographic study, every current impulse is enabled by disturbing the surface film. This current decreases proportionally to the formation of the insulating layer. Restoring of this layer leads to anodic passivity.

F. Stráfel

HEYROVSKY, J.

67 CH

Bohuslav Brauner. Jan St. Stěcha Bořta, J. Heyrovský,  
E. Svagr, J. H. Knapka, and G. N. Kiselev. *Czechoslovakia*  
780-813(1955).—Biography on the 10th anniversary of  
Brauner's birthday with a portrait. M. Heyrovsky.

HEYROVSKY J

CZECHOSLOVAKIA/General Problems.

A-

Abs Jour : Ref Zhur - Khimiya, No 10, 1957, 33394

Author : Heyrovsky J., Szagr T., Krpelka J.N., Nemec B.

Inst :

Title : Recollections on Professor Bohuslav Brauner.

Orig Pub : Chem. listy, 1955, 49, No 6, 802-813.

Abstract : No abstract.

Card 1/1

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618020012-1

1956-19

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618020012-1"



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New trends in polarography. In German. p. 3. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAI) LC, Vol. 6, No. 8, Aug 1957. Uncl.

HEYROVSKY, J.

Bulgaria/ Physical Chemistry - Electrochemistry

B-12

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 11377

Author : Heyrovsky J., Trifonow A.

Inst : Bulgarian Academy of Sciences

Title : Concerning the Nature of Polarographic Maxima on Anodic Dissolution of Mercury in Alkaline Medium

Orig Pub : Ueber die Natur der polarographischen anodischen Maxima in alkalischer Loesung.  
Dokl. Bolgar. AN, 1956, 9, No 1, 7-9 (German; Russian summary)

Abstract : See RZhKhim, 1956, 15728

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General remarks on oscillographic polarography. In German. p. 73. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

HAZARD, J.

On the eve of volume ten of Chemické zvesti. p.5. CHEMICKÉ ZVĚSTI.  
(Slovenská chemická společnost Spolok chemikov na Slovensku) Bratislava.  
Vol. 10, no.1, Jan. 1956.

SOURCE: East European Accessions List, (EEAL), Library of Congress  
Vol. 5, no. 10, 1956, December.

HEYROVSKY JAROSLAV

General remarks on oscillographic polarography. Jaroslav Heyrovsky (Czechoslovak Acad. Sci., Prague). *Acta Chim. Acad. Sci. Hung.* 9, 73-81 (1955) (in German) (Hungarian summary); cf. *C.A.* 51, 12708k. — Compds. (inefficient as polarographic depolarizers (e.g.,  $\text{La}^{3+}$  ions or  $\text{C}_6\text{H}_6$ ) can show a depolarizing action in oscillography. This offers a general analytical method qualitatively more, but quantitatively less precise than classical polarography. Curves of  $V$  vs.  $t$ ,  $dV/dt$  vs.  $t$ ,  $dV/dt$  vs.  $V$  ( $V$  = potential,  $t$  = time), and the oscillographic spectrum of  $N$  KOH alone and with  $\text{Ti}^{4+}$ ,  $\text{Pb}^{2+}$ ,  $\text{Zn}^{2+}$ , and nitrobenzene are presented. The presence of  $\text{CS}_2$ ,  $\text{HCN}$ , and  $\text{C}_6\text{H}_6$  in the atm. was detected by an "electronic polaroscope" of special construction.

H. K. Zimmerman

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HEYROVSKY J.

104 Bibliography of publications dealing with  
the polarographic method in 1955

author's Complete Bibliography of Analytical and  
Publications from 1922 to 1990, published in Part 1  
of the Proceedings of the First International  
Polarographic Congress in Prague, 1961, and in  
other publications. Call Czech. Pages 114-115  
and 16-17, 1962. 17. Same. 1963. 1963.  
18. 1964. 19. 1964. 19. 1964. 19. 1964.  
19. 1964. 19. 1964. 19. 1964. 19. 1964.



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The significance of the Ilkovič equation in electrochemis-  
try. J. Heyrovský and A. A. Vlček (Polarograph, Inst.  
CSAV, Prague). *Anal. fyz. časopis* 7, 3-6 (1957).—An  
evaluation of the fundamental importance of Ilkovič's con-  
tribution to polarography. H. Newkome

4

11

HEYROVSKY, J.

CZECHOSLOVAKIA/Physical Chemistry - Electrochemistry.

F.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 46114

Author : J. Heyrovsky

Inst : -

Title : Bibliography of Publications Concerning Polarography  
Edited in 1956.

Orig Pub : Sb. chekhosl. khim. rabot, 1957, 22, prilozh. No 1,  
1-79.

Abstract : No abstract.

Card 1/1

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~~HEYROVSKY J.~~

Basic trends in the development of polarographic analysis. Zav.  
lab. 23 no.4:399-409 '57. (MLBA 1026)

1. Polyarograficheskiy institut Chekhoslovatskoy akademii nauk.  
(Polarography)

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Oscillographic polarography. J. Heyrovsky (Czechoslov.  
Acad. Sci., Prague). *Osterr. Chem.-Ztg.* 58, 41-6 (1937). —  
After an outline of the development of oscillographic polar-  
ography, a special new instrument, the polaroscope, is de-  
scribed. This registers  $dV/dt - V'$  oscillograms which  
serve for qual. as well as quant. analysis. The application  
of this instrument is illustrated by analyses of: (a) vitamin  
B<sub>2</sub>, pteroylglutamic acid, and mixts. of both, (b) Aureomycin,  
chloromycetin, and mixts. of both, and (c) C<sub>2</sub>H<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S,  
HCN, and acetylene in air. Outstanding differences  
between oscillographic and conventional polarography are  
pointed out. Otto H. Müller.

PM  
MT

Concerning polarographic maxima of the first kind. J. Heyrovský (Polarographic Inst., Prague). Z. physik. Chem. (Leipzig) Sonderheft July, 1958, 7-16.—The causes of the abnormally large surface tension of the dropping Hg electrode, which is known to be assoc. with streaming of the electrolyte (Kucera, Ann. Phys. 4, 11(1903)), were studied microscopically using powd. C to make the streamlines visible. It was shown that the surface-tension effect arises, not from motions generated in the electrode, but from original motion generated near the drop, in the soln. itself, by the inhomogeneous elec. field: this streaming washes past the neck of the drop, preventing adsorption of ions thereon. It is believed that the electrolyte motion is caused by dipole-field interactions. This view was supported by observations that a Christiansen drop in an electrolyte soln. subjected to an elec. field, did not roll, but rather was pushed in the direction opposite to that of the current. The abrupt transition, polarographically observed, between the max. current and the diffusion current is explained in terms of autocatalytic amplification of the inhomogeneous elec. field.

H. K. Zimmerman

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COUNTRY	: GDR	B-12
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 21 1959, No.	74376
AUTHOR	: <u>Leypovsky, J.</u>	
EDIT.	: Not given	
TITLE	: Polarography and Its Applications	
ORIG. PUB.	: Urania (GDR), 21, No 10, 384-389 (1958)	
ABSTRACT	: A brief review article.	
		N. Chudinova

CARD: 1/1

HEYROVSKII Jn.

GEYROVSKIY, Ya., akademik (Chekhoslovatskaya Respublika)

Polarography. Nauka i zhizn' 25 no.5:18-20,25 My '58.  
(Polarography) (MIRA 11:5)

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in 1958. Coll.Cz.chem. 24 Suppl. no.1:1-69 '59. (BEAI 9:4)  
(Polarograph and polarography)



HEYROVSKY, Jaroslav [Heyrovsky, J.], akademik, laureat Nobelevskoy  
premi.

Polarography can detect the smallest amount of chemical substances.  
Znan. ta pratsia no.8:17-18 Ag '60. (MIRA 13:9)

1. Chekhoslovatskaya AN.  
(Polarography)

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"High-duty hydrogen diffusion electrodes for operation in  
environment temperature and under low pressure" by E. Justi,  
M. Pilkuhn, W. Scheibe, A. Winsel. Reviewed by J. Heyrovsky.  
Coll Cz Chem 26 no.8:2095-2096 '61.

HEYROVSKY, Jaroslav, dr., akademik, nositel Nobelovy ceny; JANAK, Jaroslav, inz.; VOLF, Milos Bohuslav, dr.; KEIL, Borivoj, Dr.Sc., laureat statni ceny; KOSSLER, Ivo, dr.

Observations of our famous collaborators on making new laboratory instruments. Tech praca 14 no.8:655-664 Ag '62.

1. Ceskoslovenska akademie ved (for Janak and Kossler).

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"Cold combustion, fuel cells" by E.W.Justi, A.W.Winsel. Reviewed by J.Heyrovsky. Coll Cz Chem 29 no. 3:853 Mr '64.

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GUL'TYAY, V.P. [translator]; KUZNETSOV, V.A. [translator];  
MAYRANOVSKIY, I.G., doktor khim. nauk, red.; SAKHAROV, V.,  
red.

[Principles of polarography. Translated from the Czech]  
Osnovy polirografii. Moskva, Mir, 1965. 559 p.  
(MIRA 18:7)

BLEHOVA, B.; HEYROVSKY, L.

The use of penicillamine as a diagnostic aid in hepatolenticular degeneration (Wilson's disease). Cesk. pediat. 16 no.9:809-811 S '61.

1. Detská klinika lékařské fakulty hygienické KU v Praze, Vyskumná laborator interní kliniky KU v Praze.

(HEPATOLENTICULAR DEGENERATION diagnosis)  
(VALINE rel cpds)

Hoffmann, A.

"A Contribution To The Knowledge Of The Longicorn Dacardius Polonus Scop." p. 1.  
(Sbornik. Acta Entomologica. Vol. 26, No. 372, 1944-50, Praha.)

Vol. 3, No. 3.

CC: Monthly List of East European Accessions. Library of Congress, March 1951, Uncl.

May 1954, p. 1.

"New Forms of Palsametic Ceramides." p. 1. (Uncl. en.)  
Series A. Historia Naturalis. Vol. 1, No. 1, 1954, p. 1.

Vol. 3, No. 1.

SC: Monthly List of East European Acquisitions, Library of Congress, March 1954, Uncl.



NEW YORK, N.Y.

"Description Of A New Ceraenbycid Beetle From The Soviet Union; Strangalia  
Thoracica Creutz." p. 50. (Casotis. Series A. Historia Naturalis. Vol. 2,  
No. 1/2, 1952, Opava.)

Vol. 3, No. 3.

See: Monthly List of East European Accessions, Library of Congress, April 1954, Uncl.

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Meyrovsky, L. How our generation started to work; from my entomological reminiscences. (To be contd.) p. 5. SAGOPIC; ODDIL PRIRODOVEDENY. Praha. Vol. 123, no. 1, 1954.

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 SUBJECT : General and Specialized Zoology. Insects. P  
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 REF. NO. : 100101, No.23, 1958, No.105176  
 AUTHOR : Heyrovskiy, L.  
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*[Handwritten signature]*

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and their Application. J-12  
Glass, Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27713.

Author : V. Hezky.

Inst :

Title : Tunnel Kilns and Their Use.

Orig Pub: Sklar a keramik, 1956, 6, No 9-10, 234-242.

**Abstract:** An historical review of the development of the construction of tunnel kilns (TK) starting from the appearance of the first TK in France in 1751 is given. Special attention is paid to the question of heating, the work of burners and the distribution of temperatures within the volume and in the cross-section of TK-s. Known data concerning refractory materials for the lining of TK-s are related. TK-s with electrical heating are kilns of the future, but the temperature of burning in them does not exceed 1450° (usually 1300 to 1350°) so far. Bibliography with 32 titles.

Card : 1/1

-97-



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CZECHOSLOVAKIA/Chemical Technology - Chemical Products and  
Their Application, Part 2. Ceramics, Glass,  
Binders, Concretes. - Ceramics.

H-12b

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22094

Author : V. Hezky.

Inst : -

Title : Dilution of China Mass with Optimum Amount of Water.

Orig Pub : Sklar a keramik, 1957, 7, No 9, 265-272

Abstract : The content of water in china masses (M) often proves to be 32 to 36% at the checking of the mass quality at china ware factories in Czechoslovakia, while according to the norms of the technological process it should be 30%. An amendment of the dilution by the addition of alkaline diluents (D) and protection colloids, of liquid glass in particular, allows to decrease the moisture in the M and to make the casting process easier. Experiments were carried out to match the D-s for china M (%% by weight):

Card 1/2

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and  
Their Application, Part 2. Ceramics, Glass,  
Binders, Concretes. - Ceramics.

H-12b

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Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22094

kaolin - 42.1, silica - 14.6, felspar - 34.7, china shards - 8.6. The viscosity of the M was determined at the matching of the D-s (by measuring the rate of its outflow, 100 mlit per sec.) and the rate of the shard arrangement following the plaster-of-Paris mould was determined also. Using combined D-s consisting of soda, ammoniac gum and citric acid with an addition of liquid glass, the water content in the M was successfully decreased to 25 or 26%, while the arrangement of shards following the mould was carried out rapidly without appearance of cracks and creases. It is recommended to use a combination of D-s matched for every batch of the M depending on its composition and peculiarities.

Card 2/2

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Zacher, Karlson, Laskus-Schroder, Mohler, Hun  
J. J. Solivka, USA

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